

-d -d -d

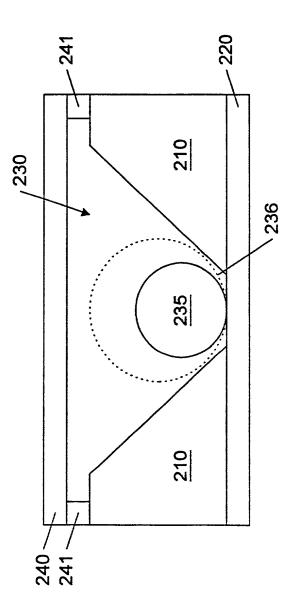


FIG. 2

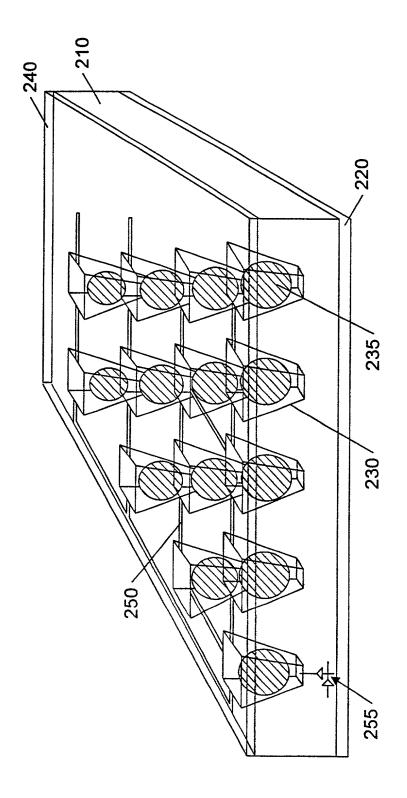


FIG. 3

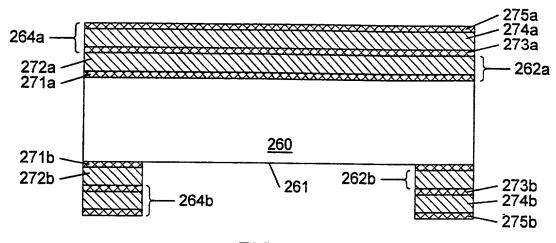


FIG. 4A

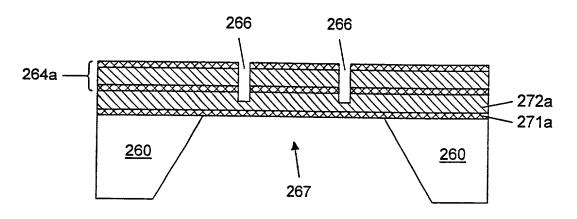


FIG. 4B

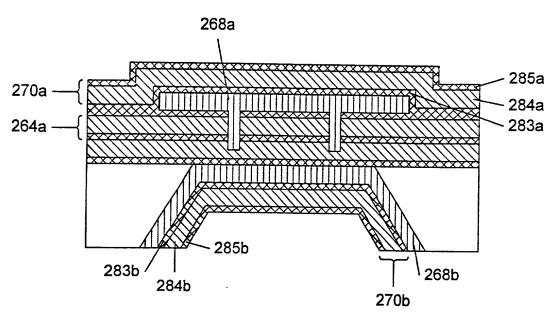


FIG. 4C

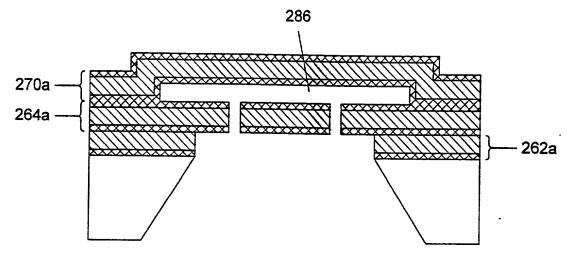


FIG. 4D

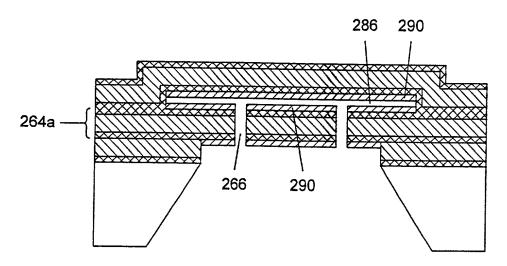


FIG. 4E

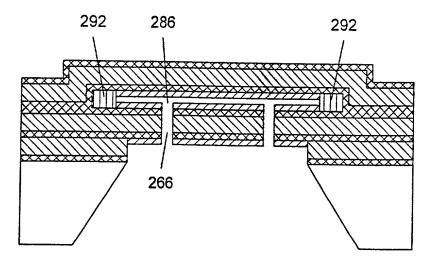
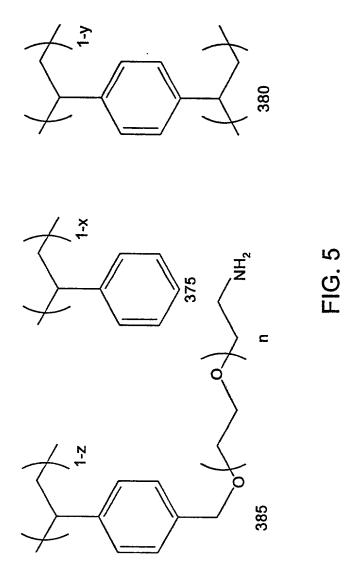
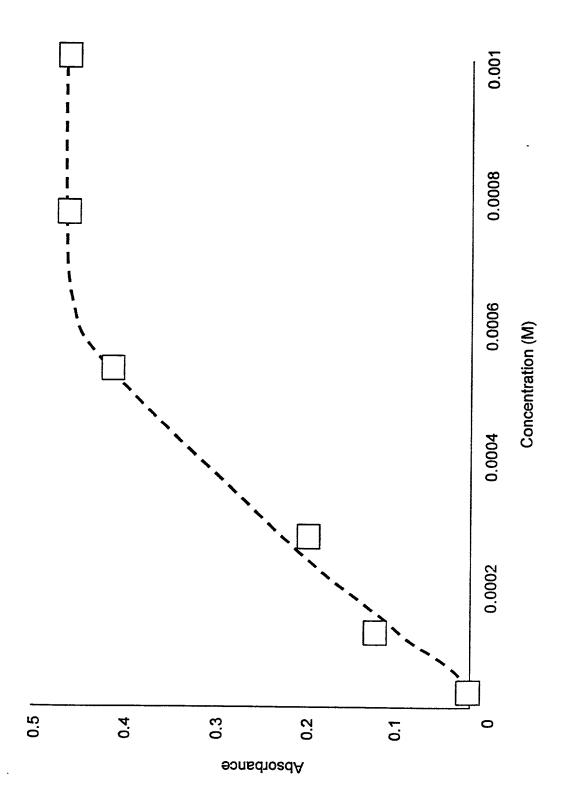


FIG. 4F

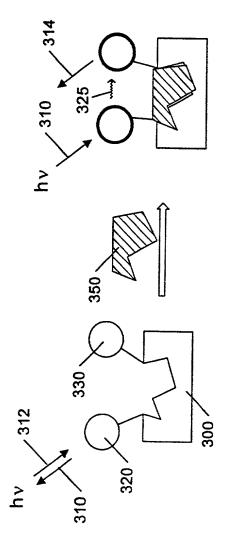


o-cresolphthalein complexone

FIG. 6



-1G. 7



-<u>|</u>G. 8

FIG. 9

Peptides

Nucleotides

$$\begin{array}{c|c} H_2N-R_2-NHtBOC \\ \hline 420 \\ \hline \end{array}$$

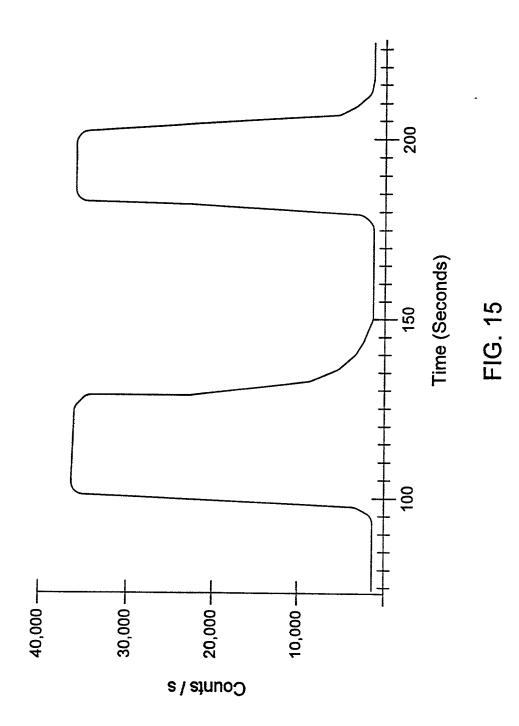
FIG. 11

FIG. 12

FIG. 13

HO
$$CO_2H$$
 H_2N O NH_2 H_2N NH_2 H_2N NH_2 475

FIG. 14



17/69

| RESIN: | | Blank | Alizarin | o-Cresol- | Fluorescein | Alizarin-Ce ³⁺ |
|--------|------------------|-------|-------------|------------------|----------------------|---------------------------|
| рН | lon | Diam | 7(11201111 | phthalein | 1 Idorescent | complex |
| 2 | none | R G B | R G X B | R G B | ж. (7.2) К. (3. в | R G B |
| 2 | Ca ²⁺ | R G B | R G B | R G B | R G B | R G B |
| 7 | none | R G B | R G B | R G B | R G B | R G B |
| 7 | Ca ²⁺ | R G B | R G B | R G B Z | R G B | R G B |
| 7 | F. | R G B | R G B | R G B | R G B | R G B |
| 12 | none | R G B | R G B | R G B | R G B | R G B |
| 12 | Ca ²⁺ | R G B | R G B | R G W B | R G K B | R G B |
| 12 | F - | R G B | R G B | R G B | R G K B | R G B |

FIG. 16

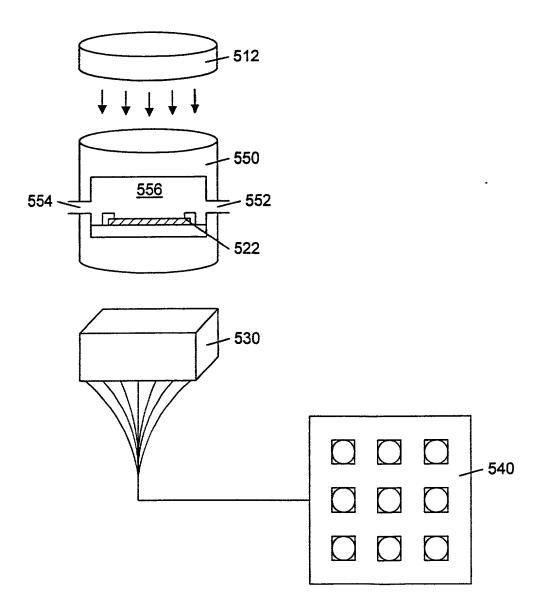


FIG. 17

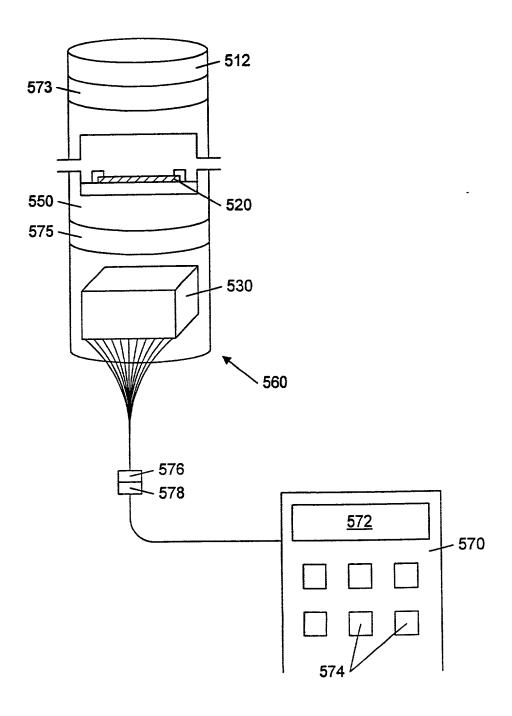


FIG. 18

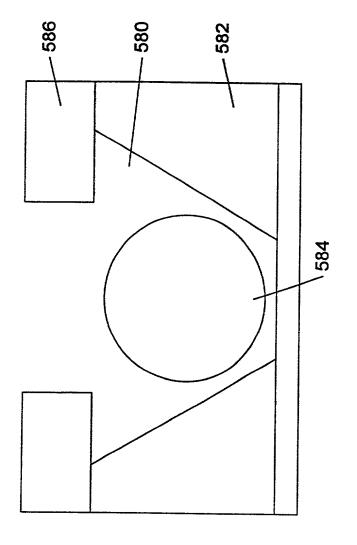


FIG. 19

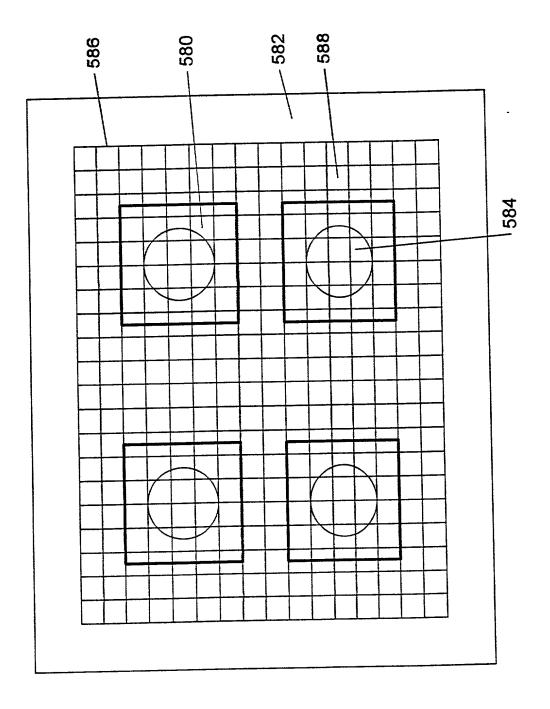
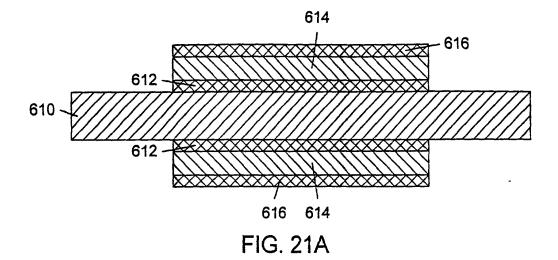


FIG. 20



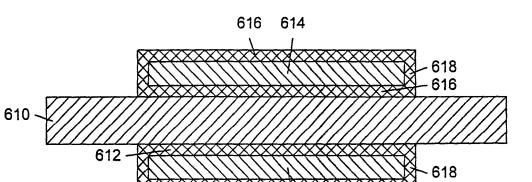


FIG. 21B

616 614

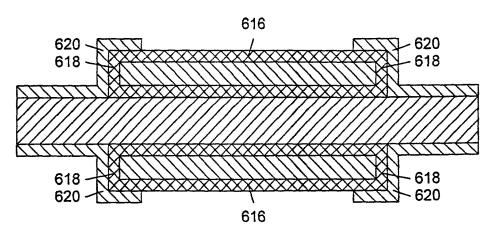


FIG. 21C

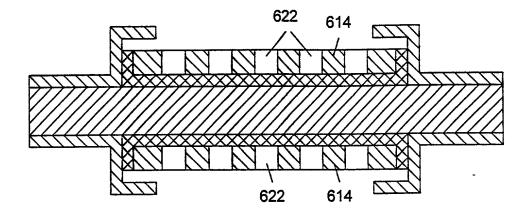
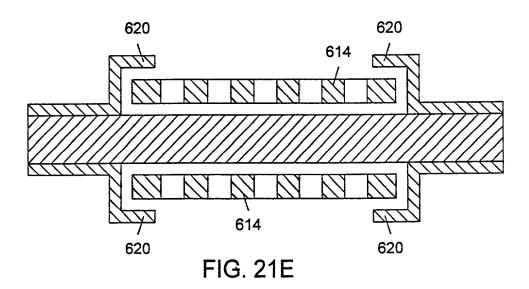


FIG. 21D



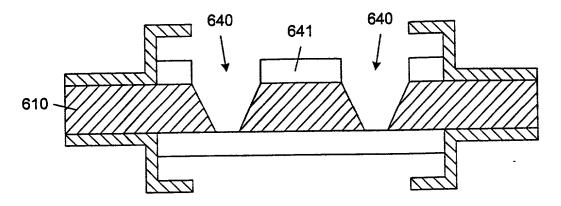


FIG. 21F

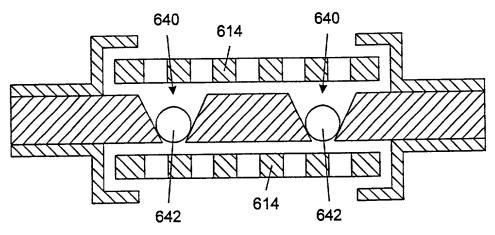
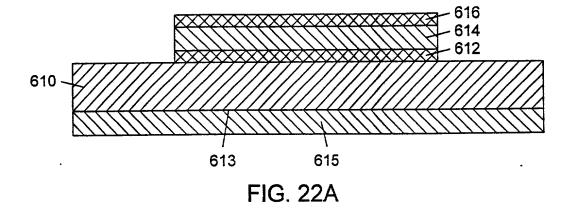


FIG. 21G



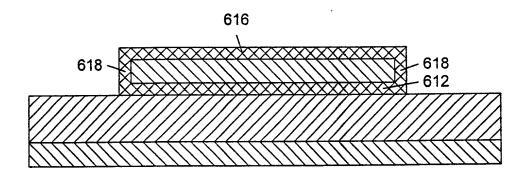


FIG. 22B

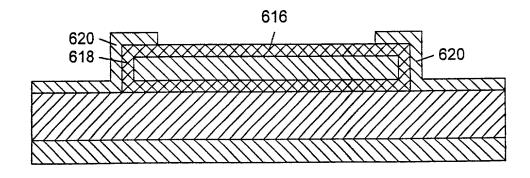
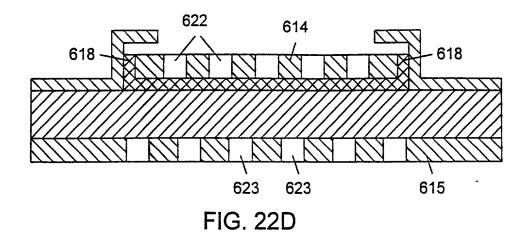


FIG. 22C



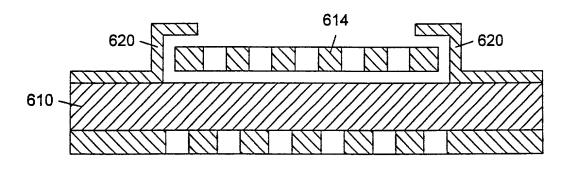


FIG. 22E

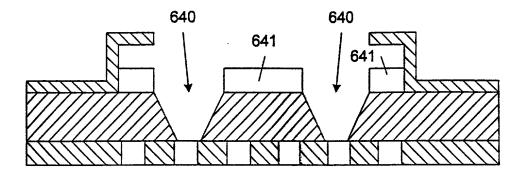


FIG. 22F

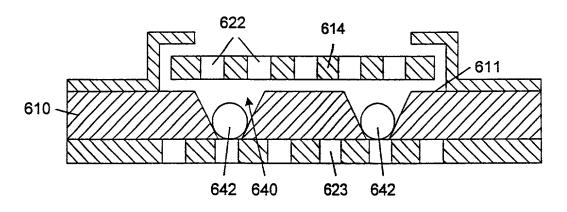


FIG. 22G

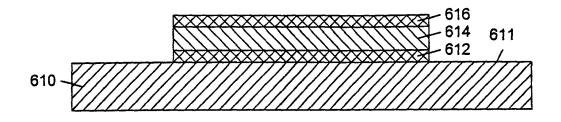


FIG. 23A

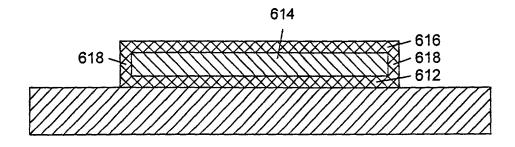


FIG. 23B

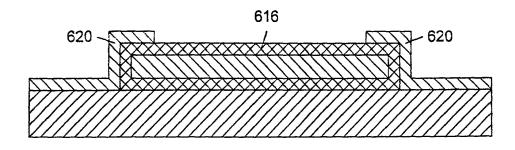


FIG. 23C

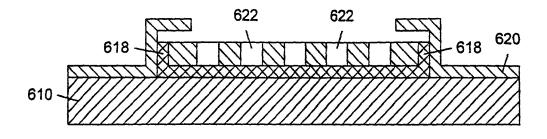


FIG. 23D

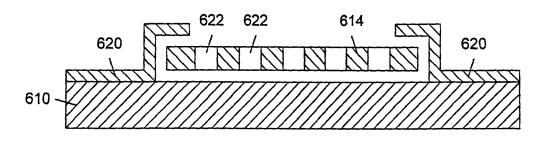


FIG. 23E

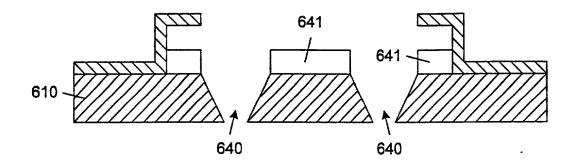


FIG. 23F

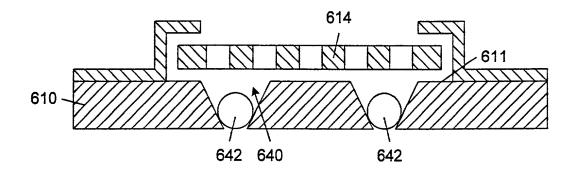
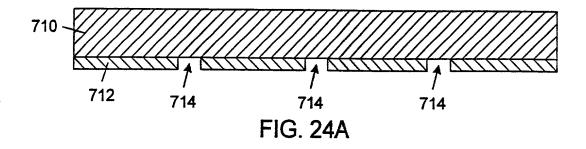


FIG. 23G



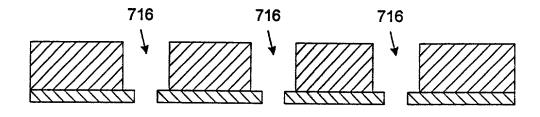


FIG. 24B

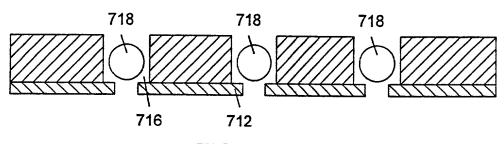


FIG. 24C

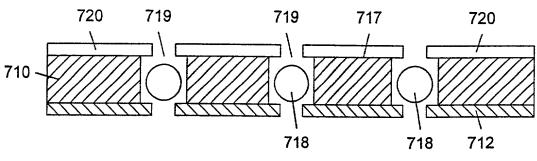
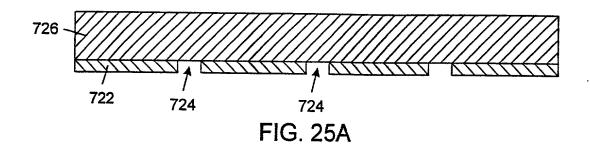


FIG. 24D



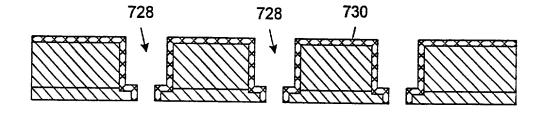
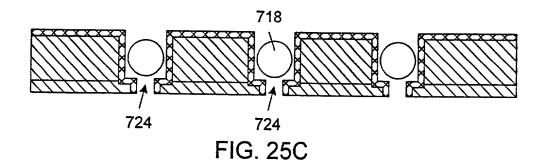


FIG. 25B



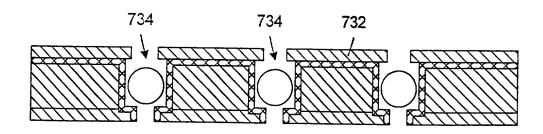
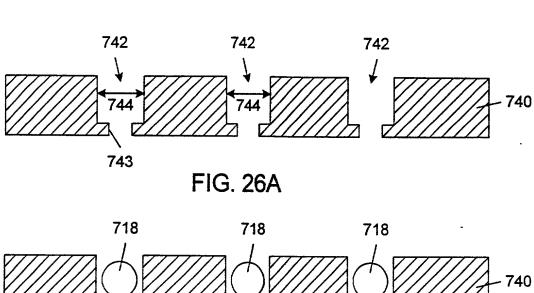
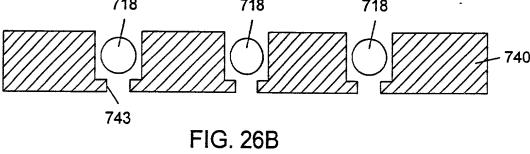


FIG. 25D





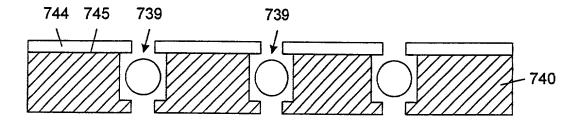
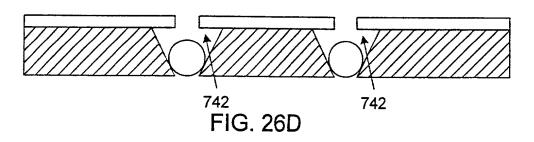
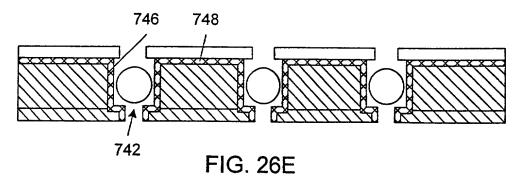


FIG. 26C





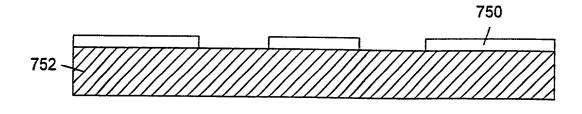


FIG. 27A

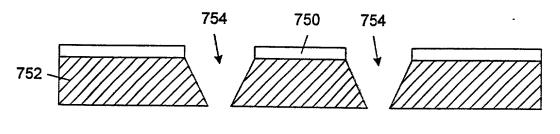


FIG. 27B

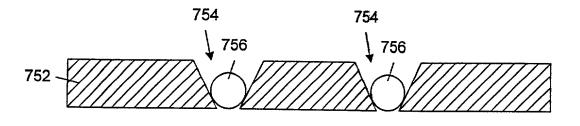
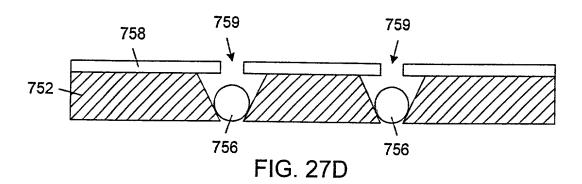
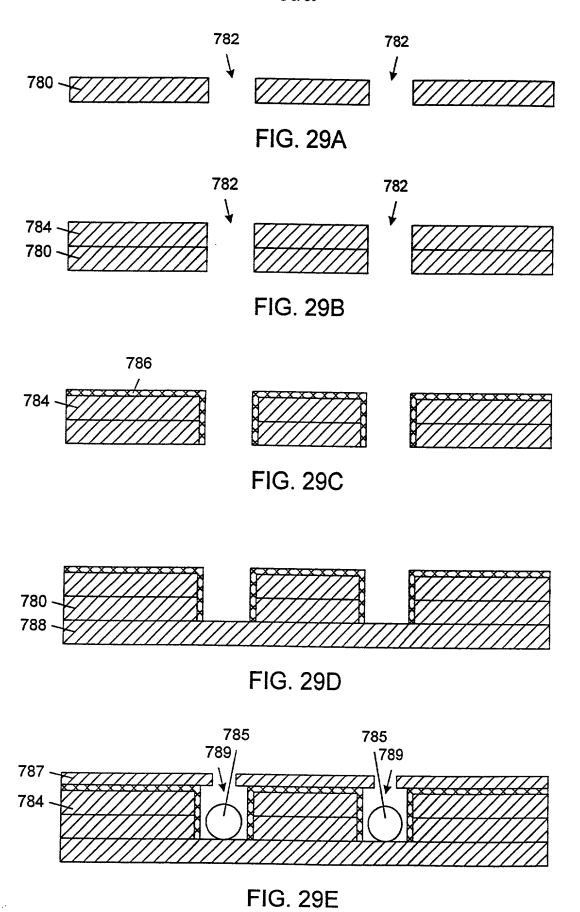
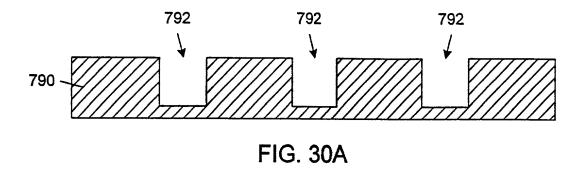


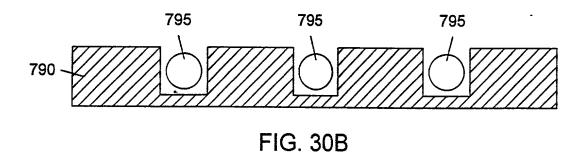
FIG. 27C

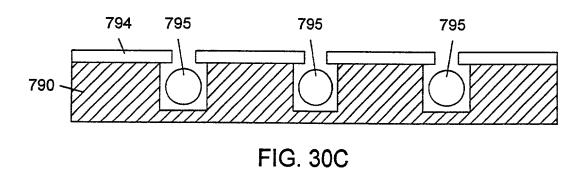


1. eq 1. (1) 35/69









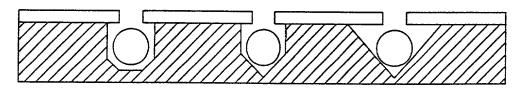


FIG. 30D

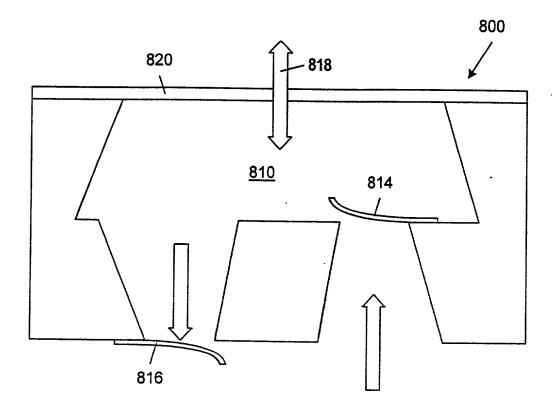


FIG. 31

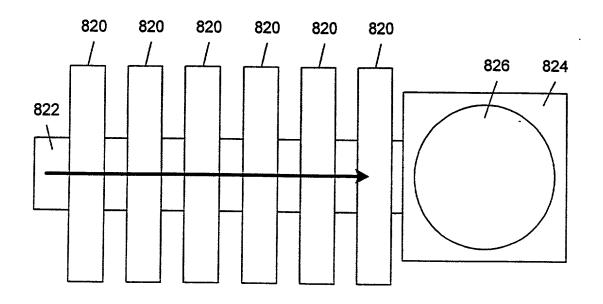


FIG. 32

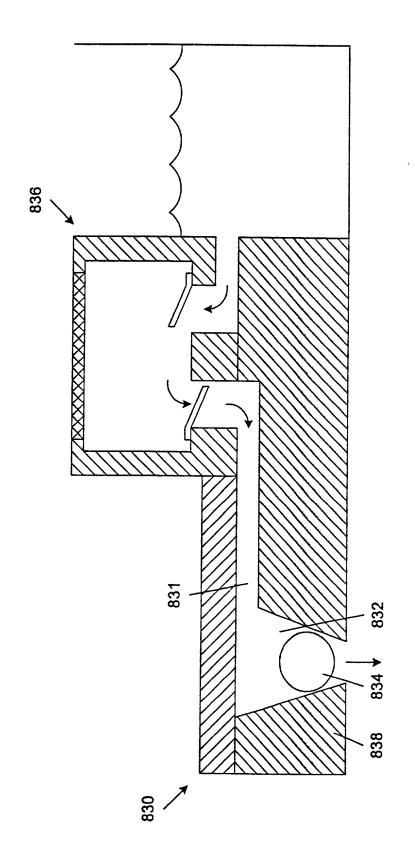
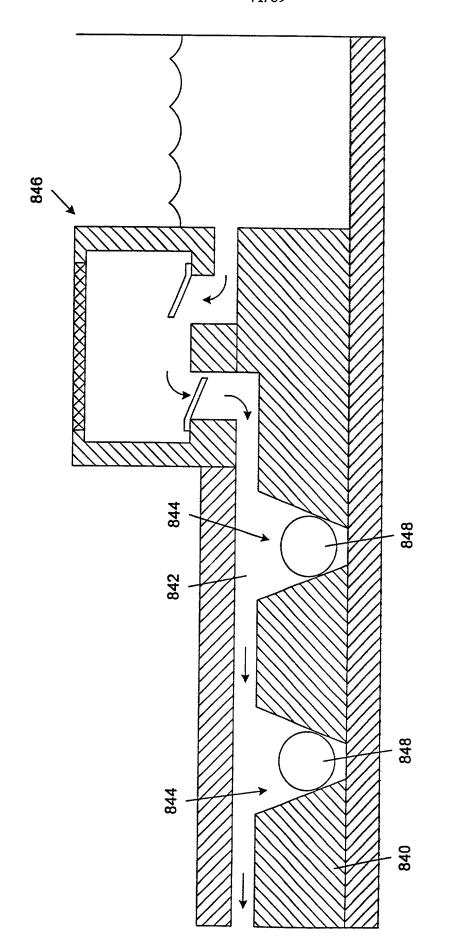


FIG. 33



全门 探说

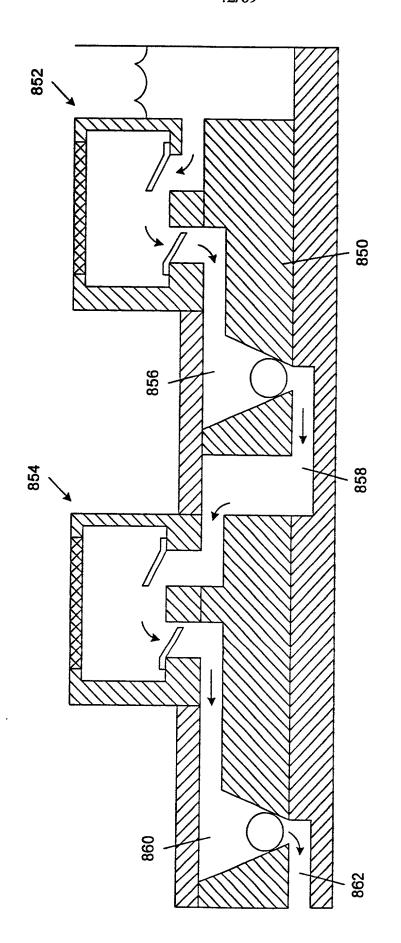


FIG. 35

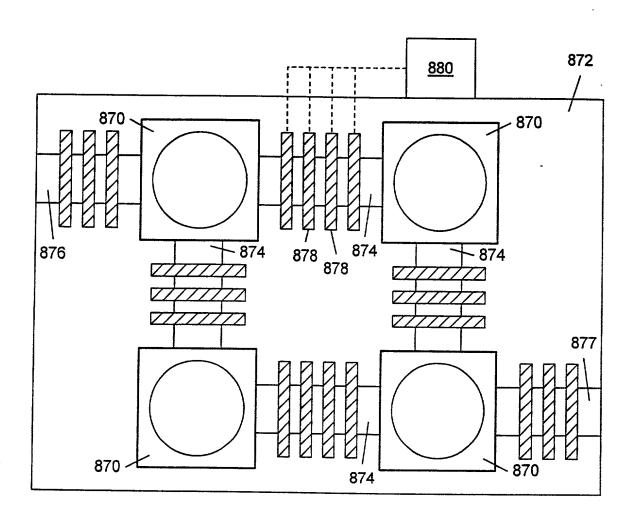
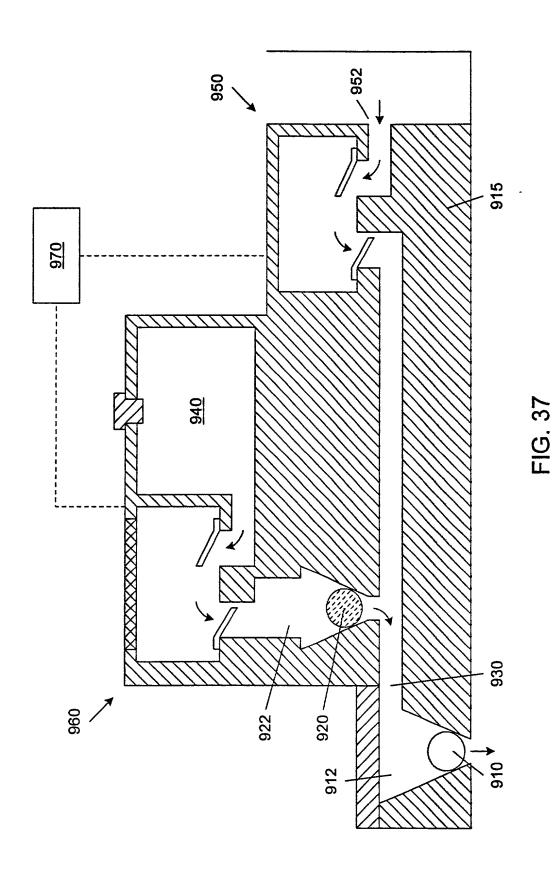
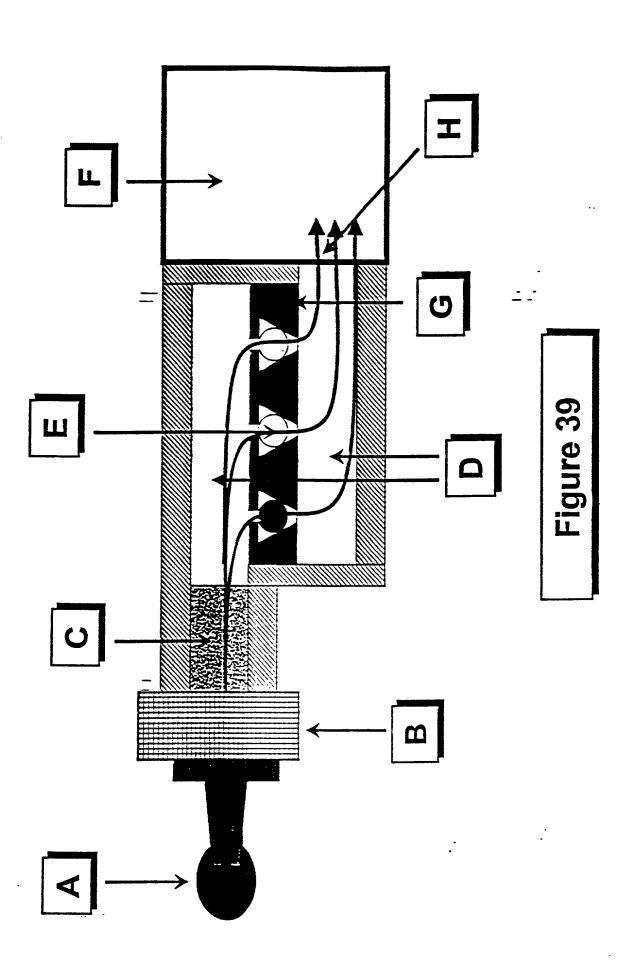
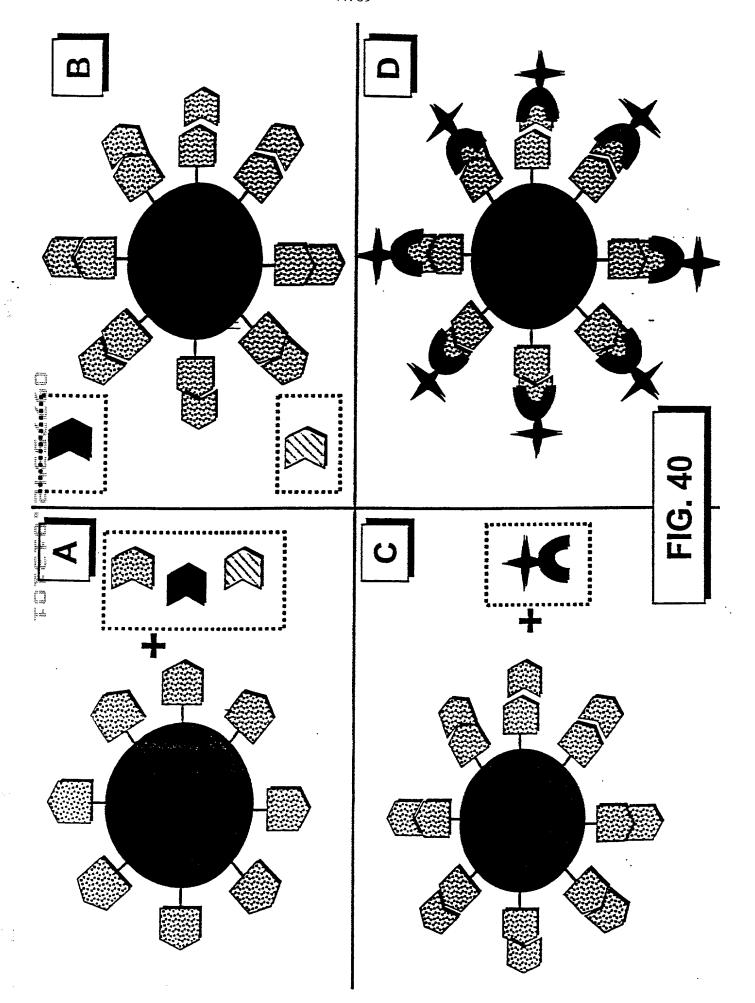


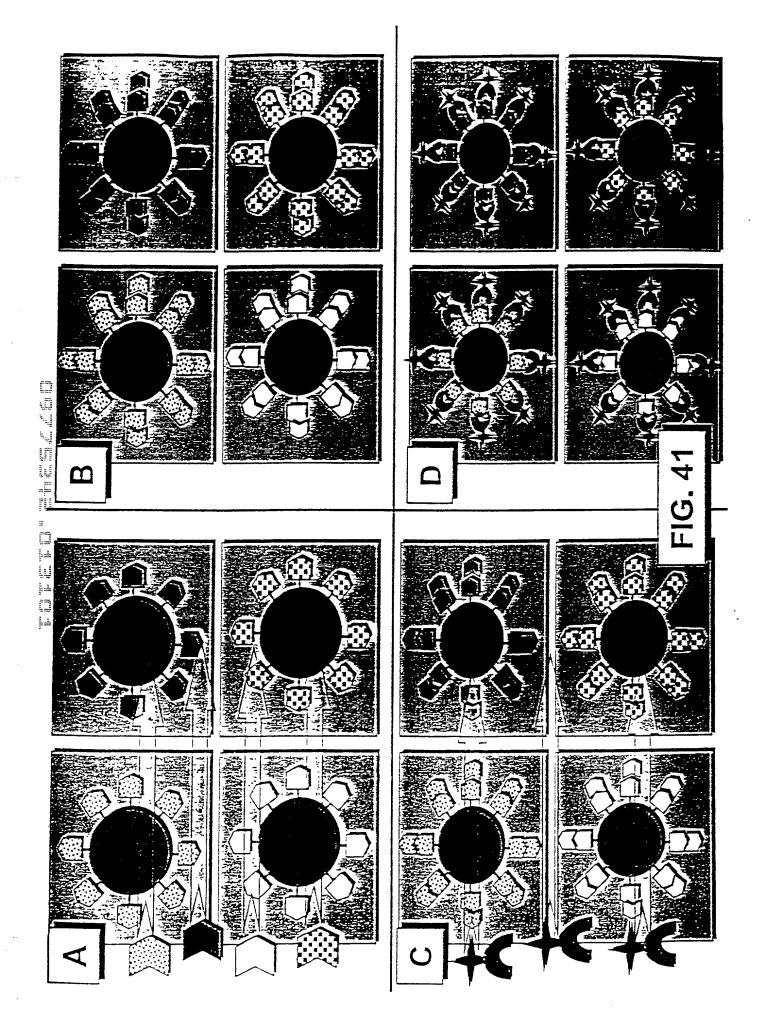
FIG. 36



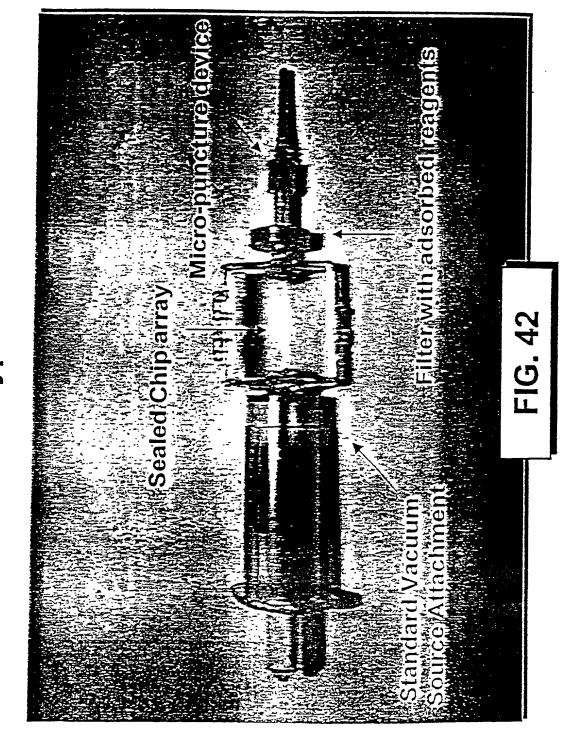
YOUR TUES

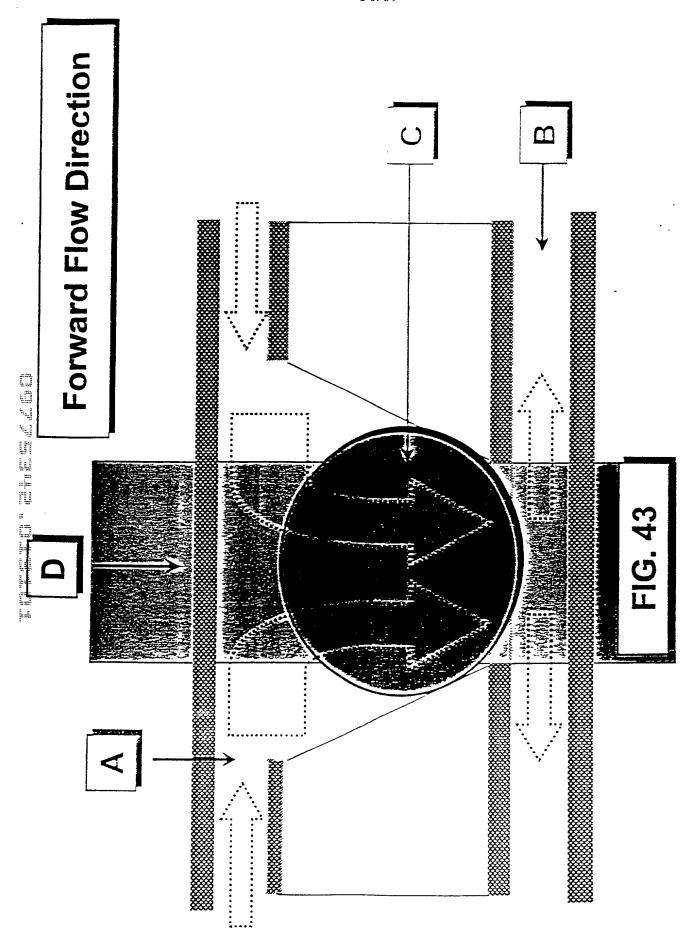


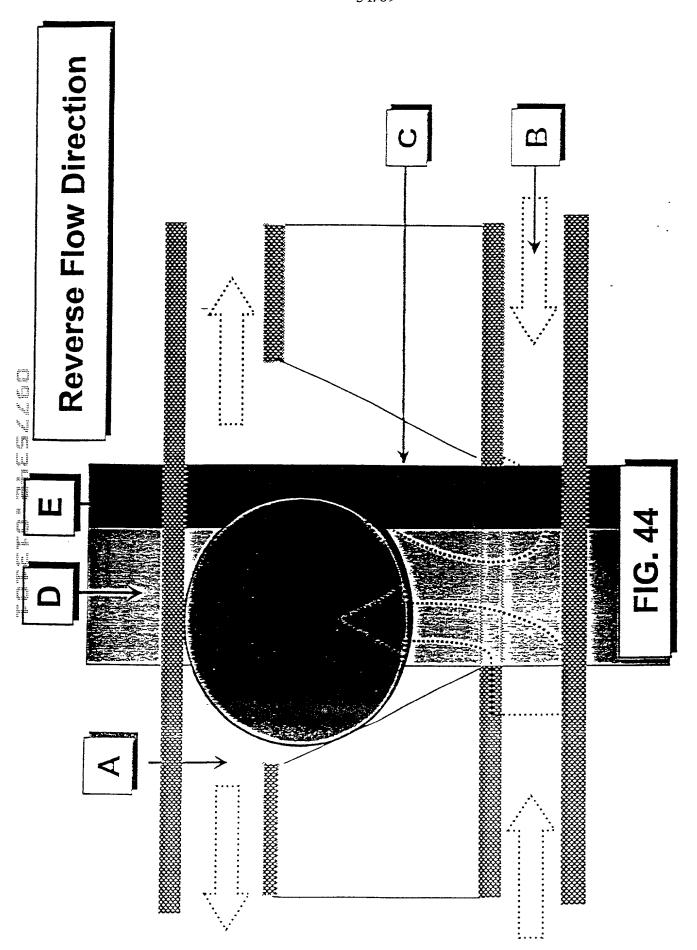


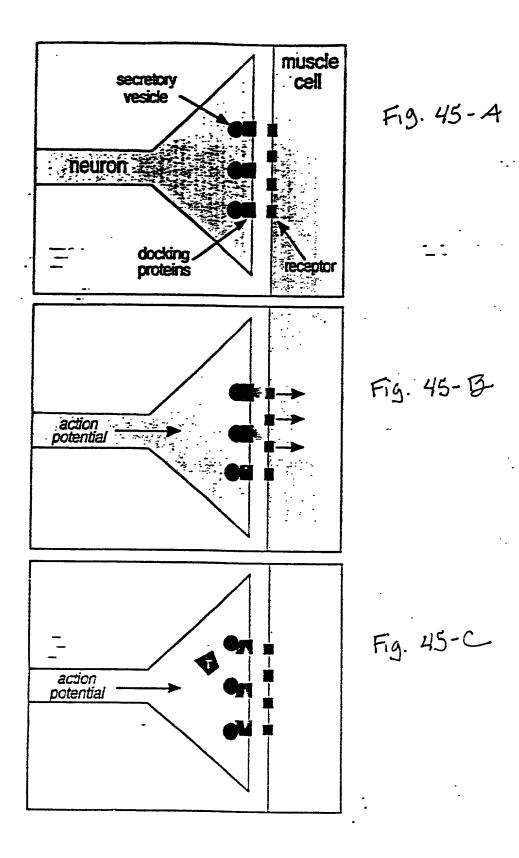


Electronic Tongue Biological Sample Acquisition Prototype 6/2/99









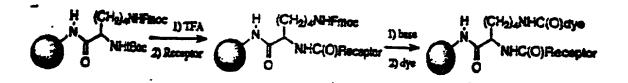
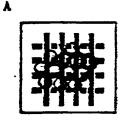
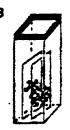
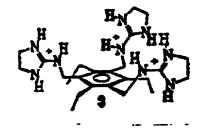


FIG. 45 D



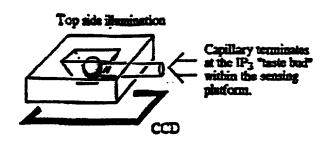


F16.46



F16. 47

F16. 48



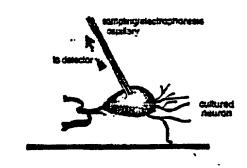
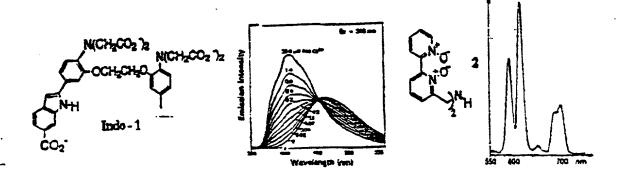


FIG. 49



F16.50

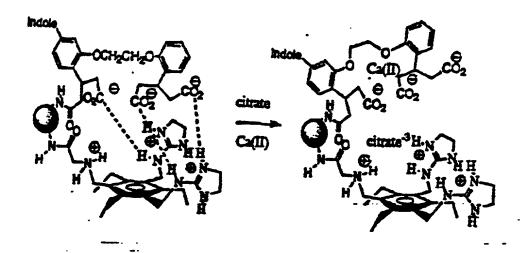
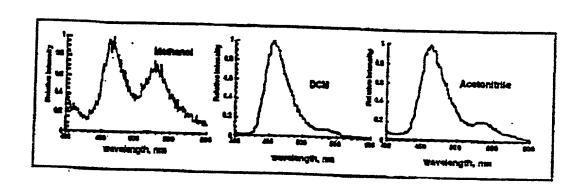
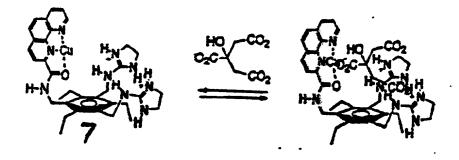


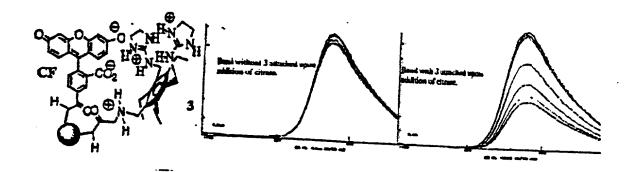
FIG. 51



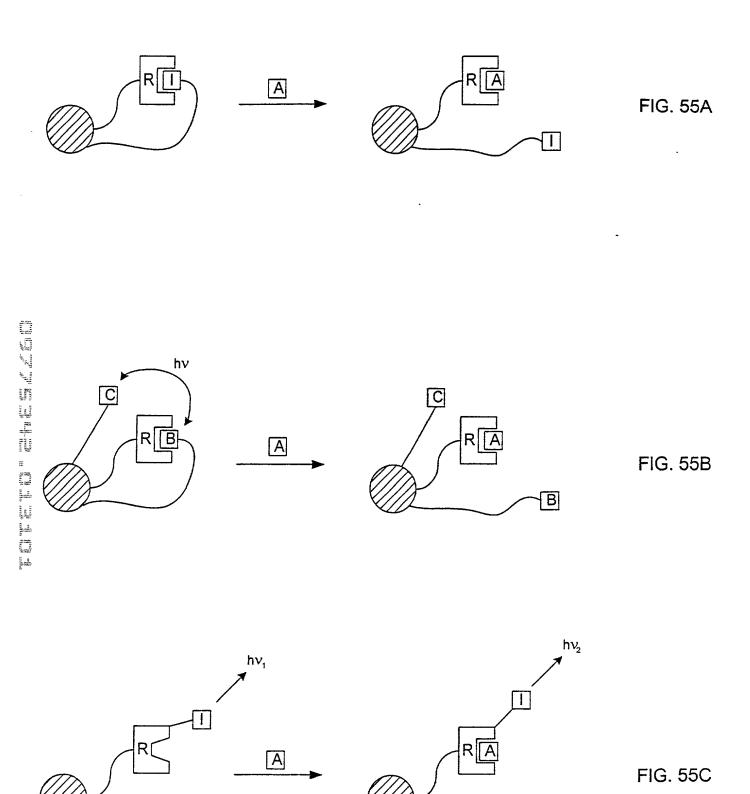
F16. 52



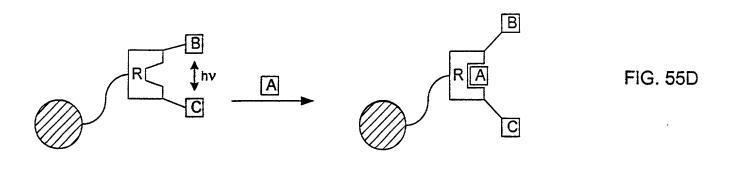
F16. 53

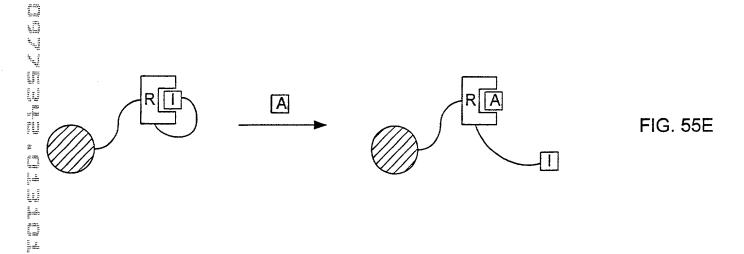


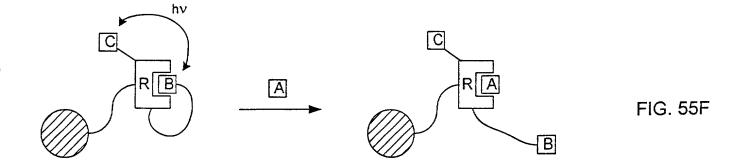
F15.54

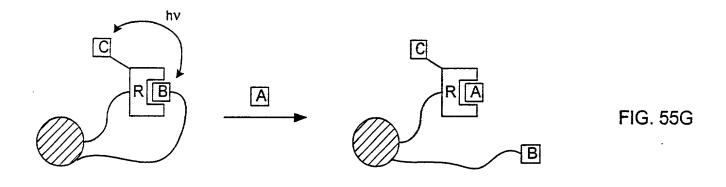


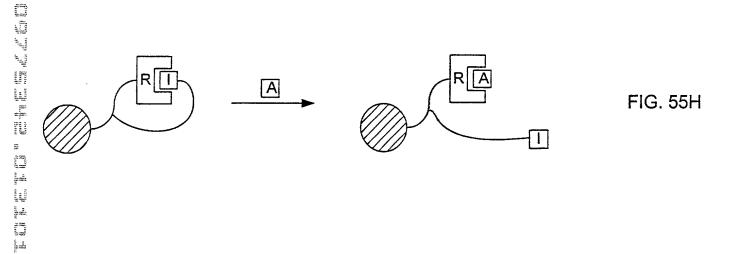
نہ ہے۔

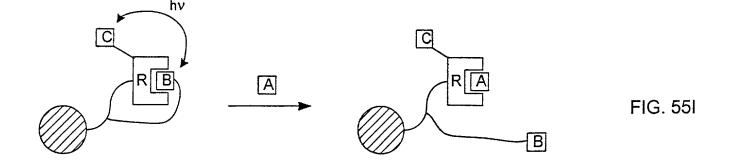












Fluorescein

FIG. 56

1

20% piperdine/DMF

$$O \longrightarrow N \longrightarrow NH_2$$
 $O \longrightarrow NH_2$
 $O \longrightarrow N$

FIG. 57

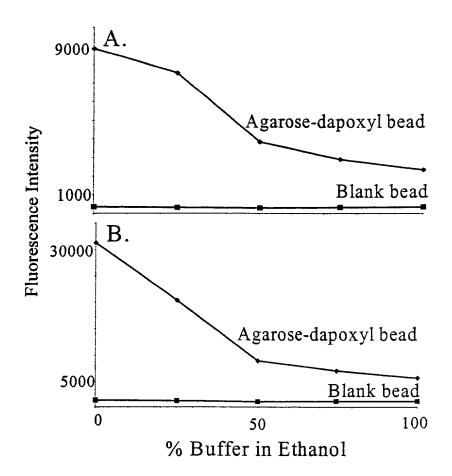


FIG. 58

FIG. 59

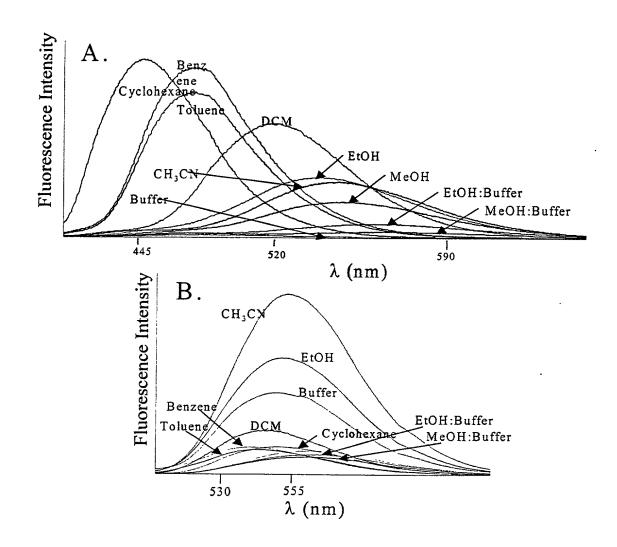
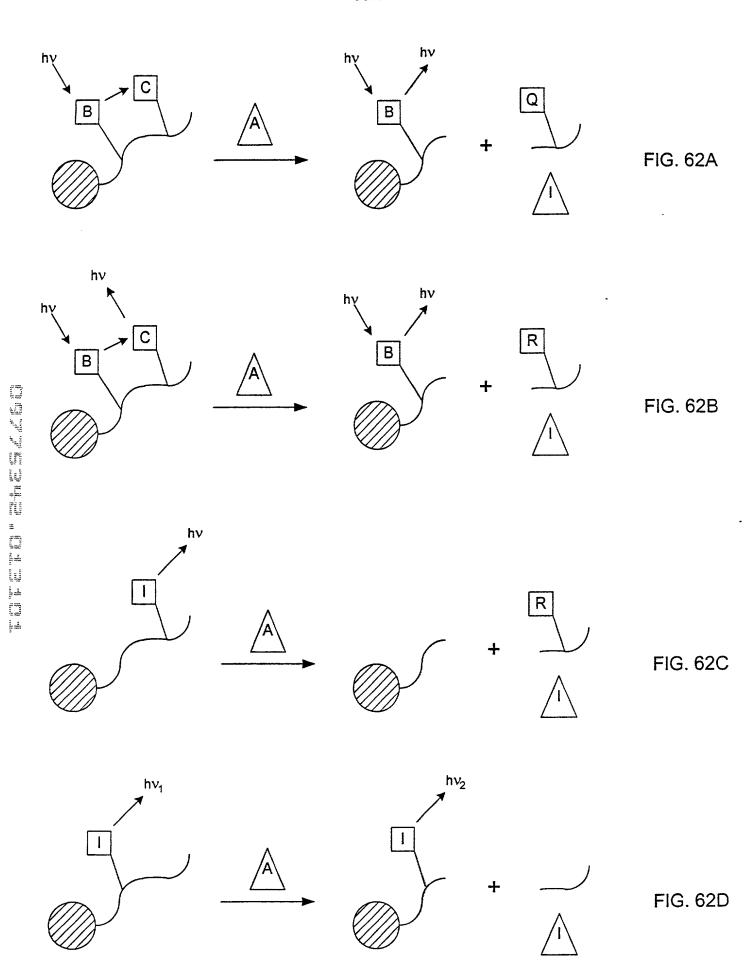


FIG. 60



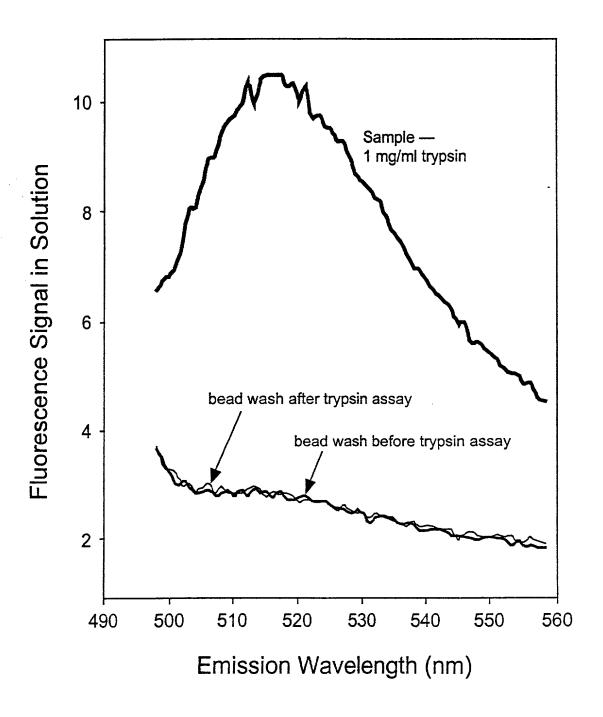


FIG. 63

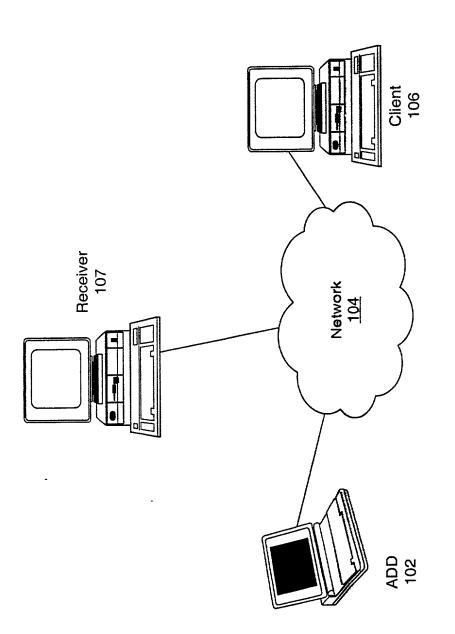


FIG. 🐿 64

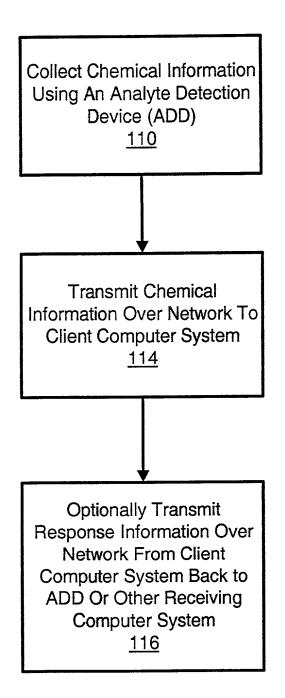


FIG. 588 65

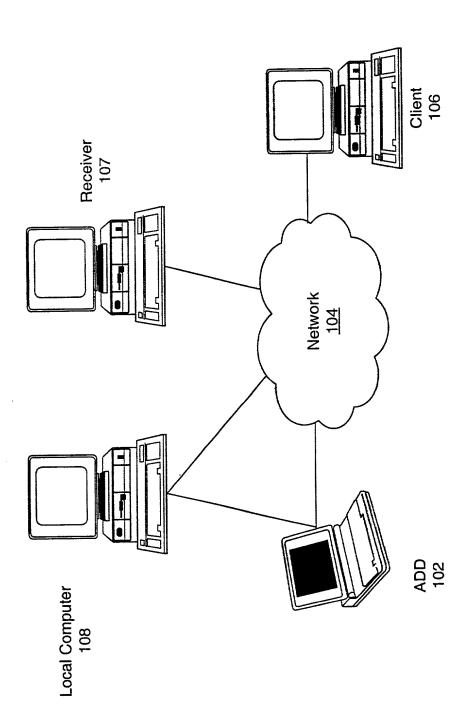


FIG. 🕬 66

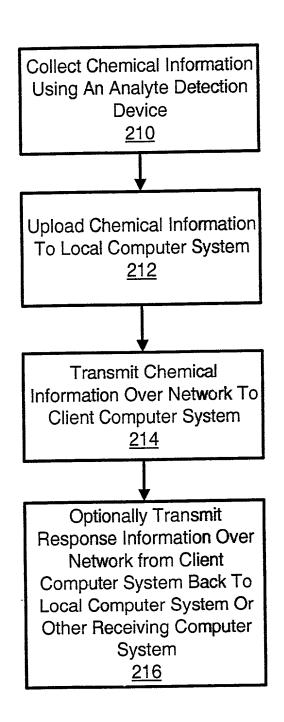


FIG. 67

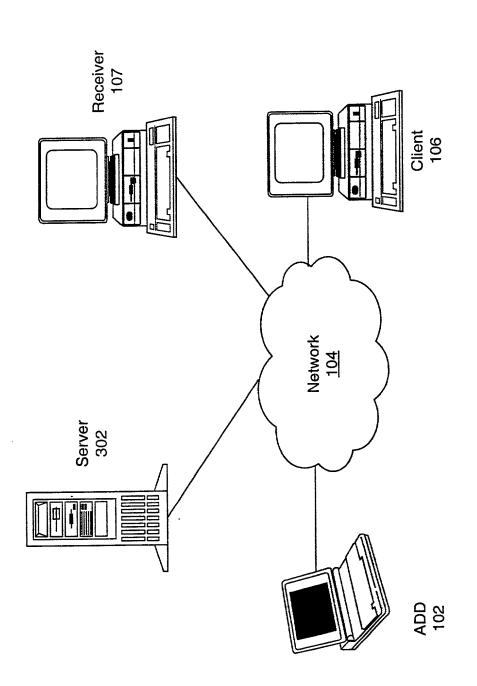


FIG. 1868

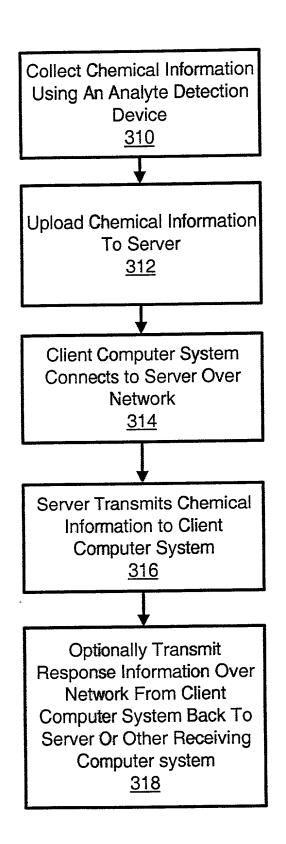


FIG. 🧀 69

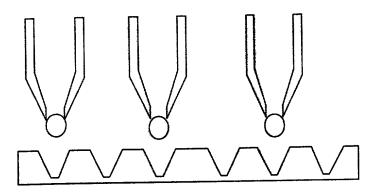


FIG. 201 704

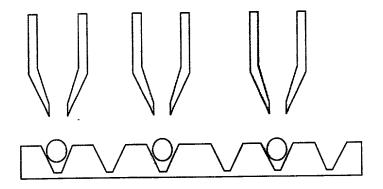


FIG. 578 70B

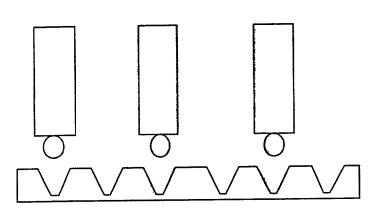


FIG. 58% 71A

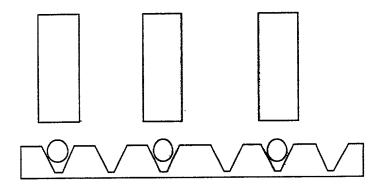


FIG. 568 718

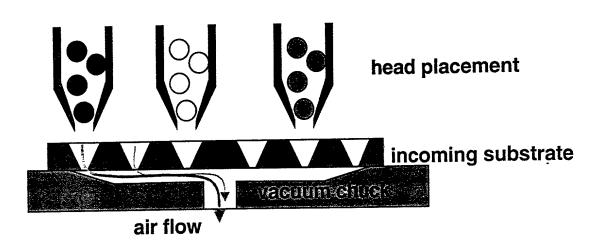


FIG. 3% 72 A

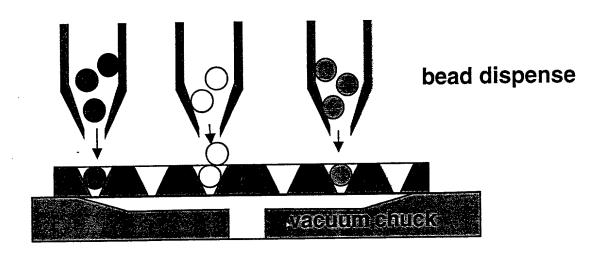


FIG. 594 72B

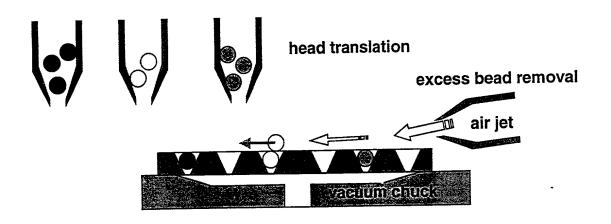


FIG. 592 72 C

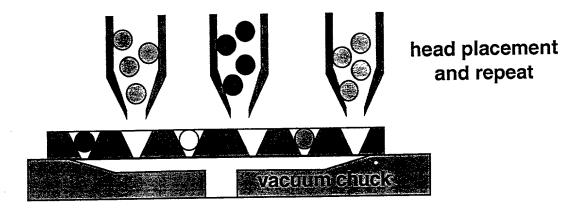
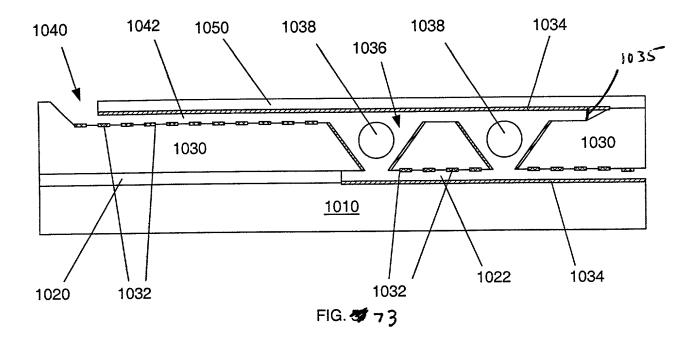
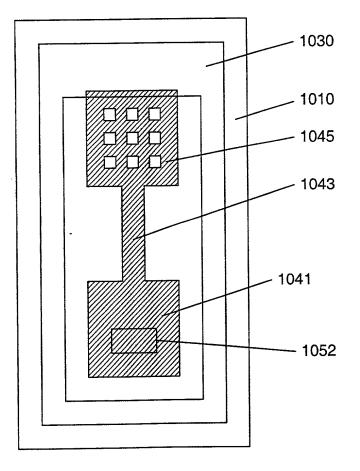


FIG. 390 729





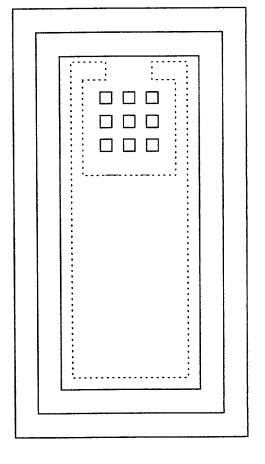
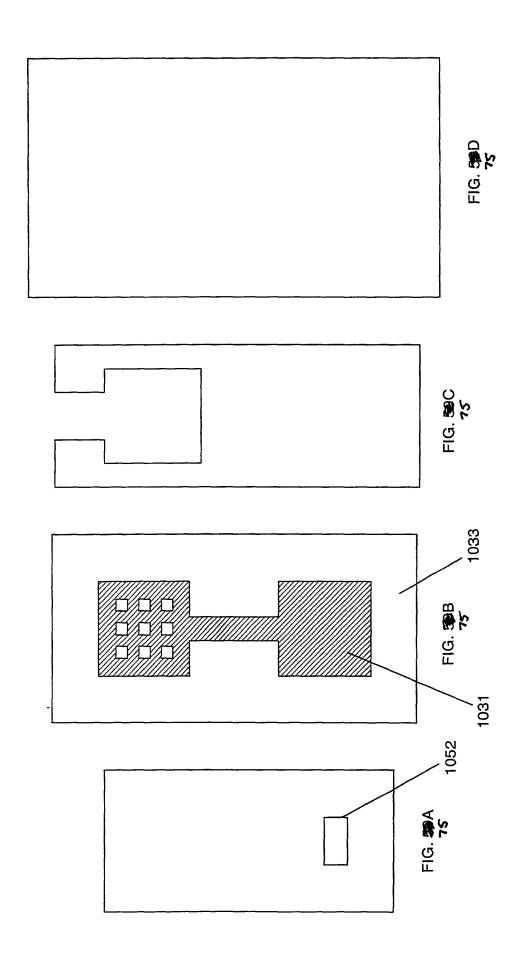


FIG. SSA

FIG. 58B



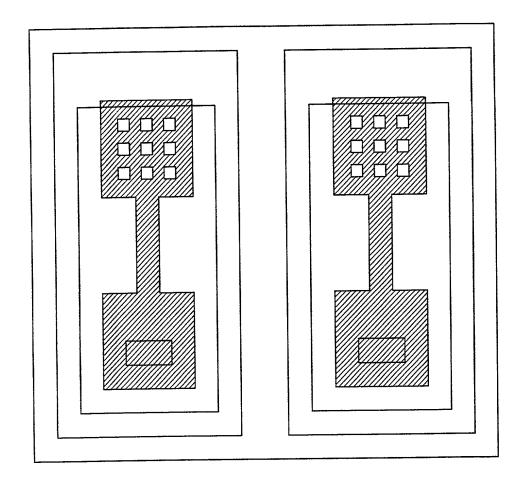
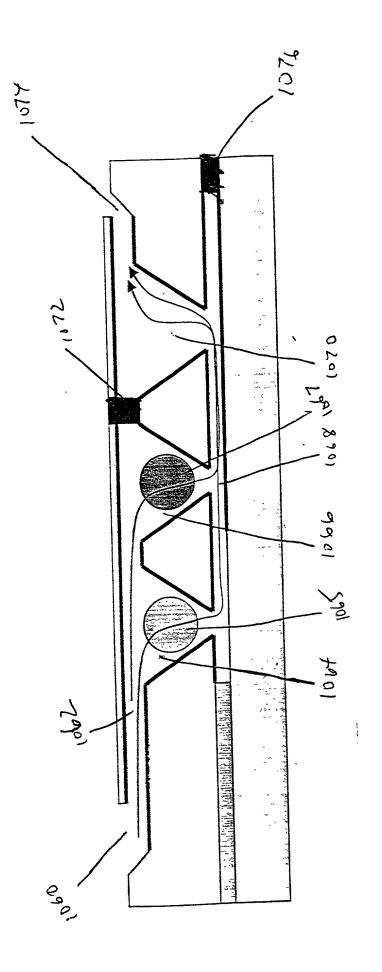


FIG. 😝 76



F16.77

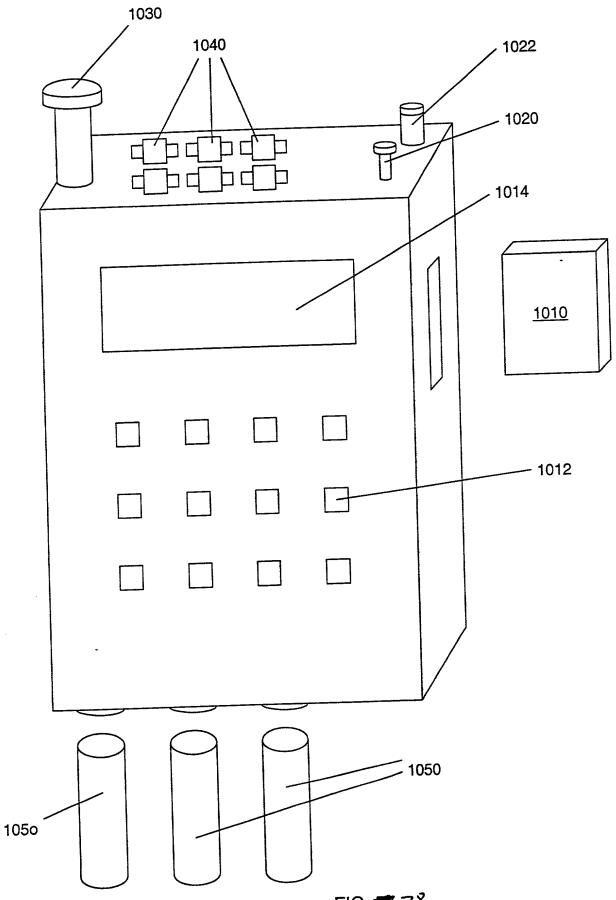


FIG. 🕏 78

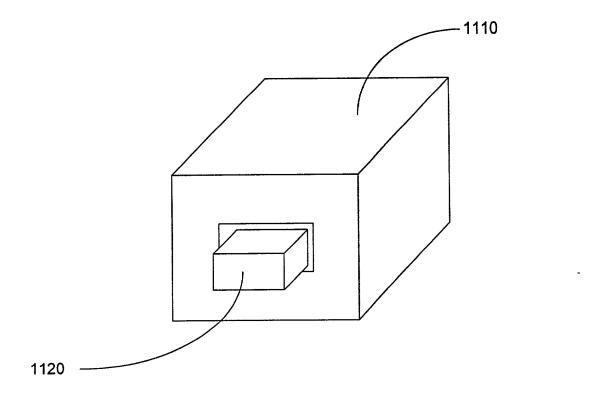
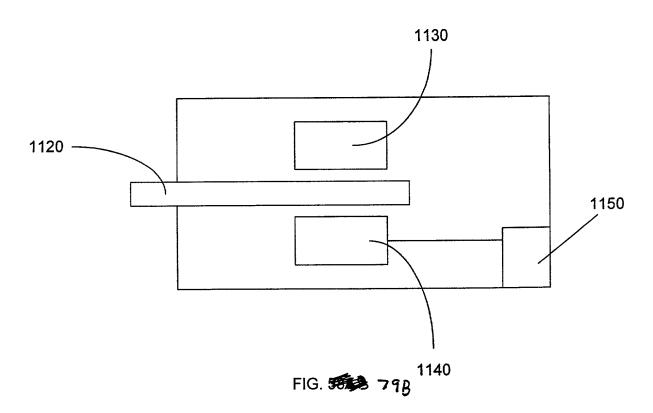
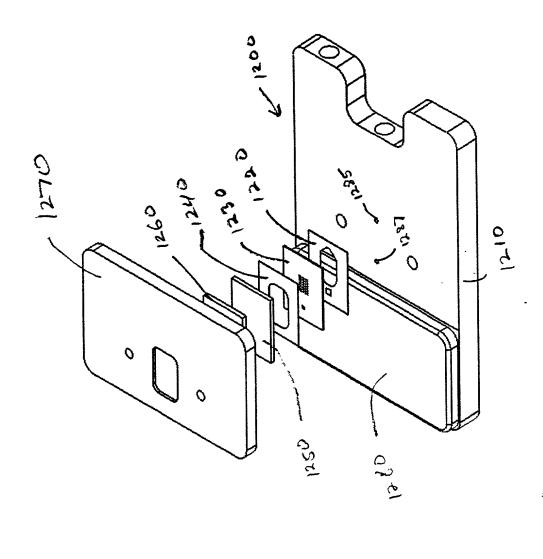
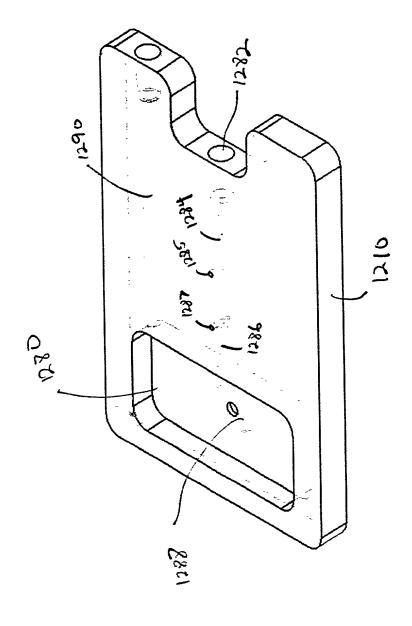


FIG. 333 79 A





£16 80



F1(2,8)

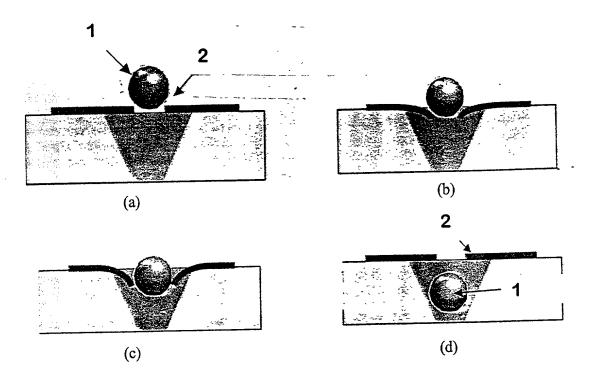


Figure 182